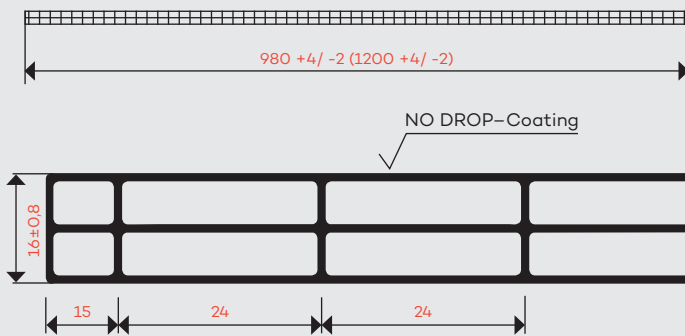
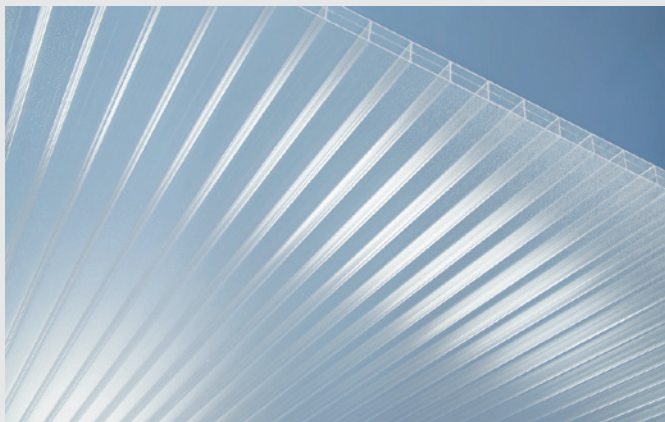


PLEXIGLAS®
Triple-skin sheet

PLEXIGLAS® proTerra S3P 16/980 (1200)-24



Section of PLEXIGLAS® proTerra S3P 16-24 (dimensions in mm)



PLEXIGLAS® proTerra S3P 16-24

Product

The triple-skin sheet PLEXIGLAS® proTerra S3P 16-24 is a thermally insulating, highly light-transmitting and durably weather-resistant sheet made of impact-modified acrylic (polymethyl methacrylate, PMMA) with an increased proportion of recycled PLEXIGLAS® raw materials.

Properties

Besides the general properties of PLEXIGLAS® like

- Excellent light transmission and brilliance
- Outstanding weather resistance
- Easy to fabricate
- High surface hardness
- 100 % recycling ability

PLEXIGLAS® proTerra S3P 16-24 possesses the following properties:

- They help to save energy and minimize CO₂ emissions.
- They are extraordinarily UV-resistant and come with a 30-year guarantee against yellowing¹.
- They offer excellent protection against excessive amounts of harmful UV radiation.
- They are safe and easy to handle.
- They are hail-resistant, with a 10-year guarantee for withstanding hailstones with an energy of 1 joule.
- They are available in clear diffuse.

¹ Applies to colorless PLEXIGLAS® multi-skin sheets according to the guarantee

Applications

Due to these properties PLEXIGLAS® *proTerra* S3P 16-24 are suitable for the following applications

- Patio roofs
- Carports
- Porch roofs
- Balconies
- Greenhouses
- Conservatories
- Light-bands
- Facades

Processing

For PLEXIGLAS® Alltop impact resist SDP 16 the following processing guideline is available:

- Instructions for Installing PLEXIGLAS® Multi-Skin, Corrugated-and Solid Sheets (Ref-No. 311-8)

Product range

PLEXIGLAS® *proTerra* S3P 16-24 is available in the following grades and sizes:

- Length: 2000 to 7000 mm
- Width: 980 mm, 1200 mm
- Color: Clear diffuse

NO DROP-coating

The single-sided NO DROP²-coating has a water-dispersing effect, causing any accruing surface water to flow off as a thin film of water. The NO DROP coating on the outside of the roof can support natural cleaning of the roof by rainwater. On the underside of the roof, it contributes to, prevent the formation of drops *deu* to possible condensation water as well as condensation-related damage.

Activation of the NO DROP-coating

The new NO DROP-coating is covered by a protective layer. This is washed away by condensation or rain water, thus activating the NO DROP-coating. Alternatively, the coating may be activated manually by sponging or hosing down with water.

Efficacy and care instructions

We recommend cleaning the roofing made with PLEXIGLAS® sheets once a year in accordance with our care instructions.

Load-bearing capacity Support spacing

Supported on all four sides and as part of a system with suitable glazing bars the PLEXIGLAS® *proTerra* S3P 16-24 multi-skin sheet requires support spacings as stated in the table. The load-bearing capacity is determined in line with ETAG 010 (Guideline for European Technical Approval for Self-supporting, Translucent Roof Kits), assuming a rebate depth of 20 mm for the multi-skin sheets in the glazing system and a safety factor of 1,6. The support spacing should be reduced correspondingly for smaller rebate depths. If the skin of a cut-to-size sheet is to protrude more than 15 mm beyond the last web, INFILL SECTION 16 has to be inserted into the cut edge.

Support spacing [m]

Load [N/m ²]	980 mm	1200 mm
400	4,0	3,5
600	3,5	3,0
800	2,5	2,2
1000	2,3	2,0
1200	2,0	1,8

² Europ. Patent 149 182

PLEXIGLAS®

Triple-skin sheet

Technical data (Typical values)

Available length	2000 to 7000 mm
Light transmittance τ_{D65}	
Clear diffuse ORS12 NO DROP	Approx. 78 %
Total energy transmittance g	
Clear diffuse ORS12 NO DROP	Approx. 74 %
Heat transfer coefficient k	2,4 W/m ² K
Coefficient of linear thermal expansion α	0,09 mm/m ² K
Possible expansion due to heat and moisture	Approx. 6 mm/m
Max. service temperature without load	70 °C
Weighted sound reduction index	22 dB
Area weight	Approx. 2,9 kg/m ²
Minimum permissible cold-curving radius	2880 mm

Fire behavior

- PLEXIGLAS® acrylic is rated as European Class E in accordance with DIN EN 13501.
- PLEXIGLAS® semi-finished products burn almost entirely without smoke in accordance with DIN 4102 and are easily extinguished.
- The smoke gases formed by PLEXIGLAS® are neither acutely toxic in accordance with DIN 53436 nor corrosive according to DIN VDE 0482-267.
- Roof surfaces glazed with PLEXIGLAS® sheets open up by melting in the event of fire, allowing smoke and heat to escape.

Guarantee

You can find the guarantee statements on this and other products at www.plexiglas.de.

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Acrylic Products

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www.plexiglas.de
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® = registered trademark

PLEXIGLAS is a registered trademark of Röhm GmbH, Darmstadt, Germany.
Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

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